TOBACCO INDUSTRY RESEARCH COMMITTEE
350 FIFTH AVENUE NEW YORK 1, N. Y.

Application For Research Grant

Date: February 22, 1955

1. Name of Investigator:

Duane G. Wenzel

2. Title:

Associate Professor of Pharmacology

3. Institution & Address:

School of Pharmacy, University of Kansas, Lawrence, Kansas

4. Project or Subject:

The Effect of Chronic Cigarette Smoke Inhalation on Experimental Atherosclerosis of the Rabbit.

5. Detailed Plan of Procedure (Use reverse side if additional space is needed):

Four experimental groups of rabbits are to be maintained for approximately one year as follows:

Group I, fed threshold-atherosclerotic levels of cholesterol and administered cigarette smoke daily to roughly correspond to the "heavy" human smoker;

Group II, fed a normal diet plus smoking as in Group I;

Group III, fed threshold-atherosclerotic levels of cholesterol, and

Group IV, fed a normal diet.

Each group is to have regular determinations made of the serum cholesterol/phospholipid ratio throughout the year. At the end of the experimental period, the animals are to be sacrificed and the following determined:

1. Histology of the cardiac coronary vessels;

2. Transverse and longitudinal distensibility of the aorta; and

3. Cholesterol and calcium content of the aorta.

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6. Budget Plan:

Salaries	$3,200.00
Expendable Supplies	450.00
Permanent Equipment	800.00
Overhead 8%	356.00
Other	
Total	$4,806.00

7. Anticipated Duration of Work: One year, July 1, 1955 through June 30, 1956. If, however, significant differences are found between the control and tobacco-smoking groups, further studies will be desirable.

8. Facilities and Staff Available:

A new air-conditioned animal room and research laboratories with all types of pharmacological and chemical equipment are available.

The staff available for this project consists of the Project Director (DGW), a research assistant in pharmacology and whatever additional graduate assistants are necessary. The Project Director will be able to spend full time for two months (July and August, 1955) ~~x~~ setting up and starting the project. The remainder of the year part of his time will be used to direct and supervise the project.

9. Additional Requirements:

None

10. Additional Information (Including relation of work to other projects and other sources of supply):

It is anticipated that this project will aid in confirming or denying reports implicating smoking as a cause of coronary disease (1). The chronic production of atherosclerosis is hoped to give a condition which will closely resemble the human form of the disease (2) and will thus aid in establishing the role of smoking in atherosclerosis.

(1.) Hammond, E. C., J.A. Ph. A., Pract. Ed., 15, 537 (1954).
(2.) Duff, G. L. and McMillan, G. C., Am. J. Med., 11, 92 (1951).

Signature /s/ Duane G. Wenzel
Director of Project

Duane G. Wenzel

/s/ William J. Argersinger, Jr.
Business Officer of the Institution

Wkk W. J. Argersinger, Jr.
Assistant Dean, Graduate School

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